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THE UNIVERSITY OF CHICAGO

VYSIS, INC.-US and FOREIGN PATENTS/APPLICATIONS

Country	Doc#	Type	Atty.	Status	Appl. #	Filing Date	Patent #	Issue Date	Expiry Date	TITLE	1st Inventor	Assignee
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USA	25,835,11-US	CON	NBG	PROSECUTN	08/28,080	5/3/94				TARGET AND BACKGROUND CAPTURE METHODS WITH APPLICATION FOR APPROPRIATE	COLLINS L	AC
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VYSIS, INC.-US and FOREIGN PATENTS/APPLICATIONS

Country	Docket #	Type	Atty.	Status	Appl. #	Filing Date	Patent #	Issue Date	Expiry Date	TITLE	1st Invention	Assignee
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VYSIS, INC.-US and FOREIGN PATENTS/APPLICATIONS

Country	Docket #	Type	Attorney	Status	Appl. #	Filing Date	Priority #	Issue Date	Expiry Date	Title	1st Invention	Assignee
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Country	Doctet #	Type	Attny.	Status	Appl. #	Filing Date	Patent #	Issue Date	Expiry Date	TITLE	1st Inventor	Assignee
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VYSIS, INC.-US and FOREIGN PATENTS/APPLICATIONS

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VYSIS, INC.-US and FOREIGN PATENTS/APPLICATIONS

Country	Docket #	Type	Atty.	Status	Appln #	Filing Date	Parent #	Issue Date	Expiry Date	TITLE	Int Invention	Assignee
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Age	Sex	Height (cm)	Weight (kg)	Body mass index (kg/m ²)	Waist circumference (cm)	Waist-hip ratio	Trunk circumference (cm)	Trunk-hip ratio	Neck circumference (cm)	Neck-hip ratio	Neck-trunk ratio	Neck-waist ratio	Neck-hip-trunk ratio
18	M	175	75	24.2	95	0.85	105	0.81	35	0.33	0.38	0.33	0.33
20	F	165	55	20.1	85	0.85	95	0.81	30	0.30	0.33	0.30	0.30
22	M	180	80	24.7	100	0.85	110	0.81	38	0.38	0.42	0.38	0.38
24	F	170	65	22.0	90	0.85	100	0.81	32	0.32	0.35	0.32	0.32
26	M	185	85	24.3	105	0.85	115	0.81	40	0.40	0.45	0.40	0.40
28	F	175	70	22.2	95	0.85	105	0.81	35	0.35	0.38	0.35	0.35
30	M	190	90	25.0	110	0.85	120	0.81	42	0.42	0.48	0.42	0.42
32	F	180	75	22.9	100	0.85	110	0.81	38	0.38	0.42	0.38	0.38
34	M	195	95	25.1	115	0.85	125	0.81	45	0.45	0.50	0.45	0.45
36	F	185	80	23.2	105	0.85	115	0.81	40	0.40	0.45	0.40	0.40
38	M	200	100	25.0	120	0.85	130	0.81	48	0.48	0.55	0.48	0.48
40	F	190	85	23.7	110	0.85	120	0.81	42	0.42	0.48	0.42	0.42
42	M	205	105	25.2	125	0.85	135	0.81	50	0.50	0.58	0.50	0.50
44	F	195	90	23.5	115	0.85	125	0.81	45	0.45	0.50	0.45	0.45
46	M	210	110	25.0	130	0.85	140	0.81	52	0.52	0.60	0.52	0.52
48	F	200	95	23.7	120	0.85	130	0.81	48	0.48	0.55	0.48	0.48
50	M	215	115	25.0	135	0.85	145	0.81	55	0.55	0.62	0.55	0.55
52	F	205	100	23.7	125	0.85	135	0.81	50	0.50	0.58	0.50	0.50
54	M	220	120	25.0	140	0.85	150	0.81	58	0.58	0.65	0.58	0.58
56	F	210	105	23.7	130	0.85	140	0.81	52	0.52	0.60	0.52	0.52
58	M	225	125	25.0	145	0.85	155	0.81	60	0.60	0.68	0.60	0.60
60	F	215	110	23.7	135	0.85	145	0.81	55	0.55	0.62	0.55	0.55
62	M	230	130	25.0	150	0.85	160	0.81	62	0.62	0.70	0.62	0.62
64	F	220	115	23.7	140	0.85	150	0.81	58	0.58	0.65	0.58	0.58
66	M	235	135	25.0	155	0.85	165	0.81	65	0.65	0.72	0.65	0.65
68	F	225	120	23.7	145	0.85	155	0.81	60	0.60	0.68	0.60	0.60
70	M	240	140	25.0	160	0.85	170	0.81	68	0.68	0.75	0.68	0.68
72	F	230	125	23.7	150	0.85	160	0.81	62	0.62	0.70	0.62	0.62
74	M	245	145	25.0	165	0.85	175	0.81	70	0.70	0.78	0.70	0.70
76	F	235</											

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FIG. 1a

CELLS
WITHIN
CLINICAL
SAMPLE



STEP 1

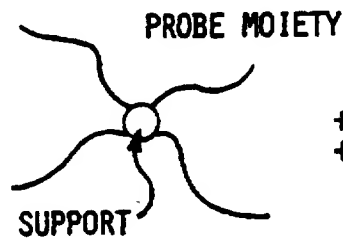
SOLUBLIZING AGENTS
& DENATURATION
OF NUCLEIC ACID

SAMPLE NUCLEIC ACID & CELLULAR DEBRI & IMPURITIES

STEP 2

RETRIEVABLE SUPPORT
WITH PROBE MOIETY

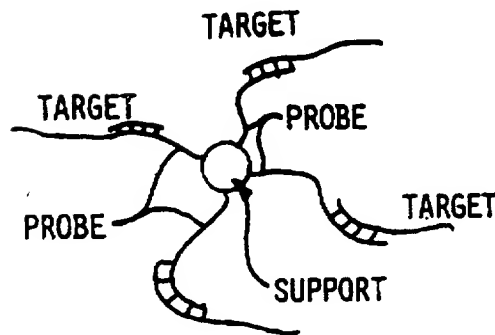
SAMPLE
NUCLEIC ACID +



+ CELLULAR DEBRIS
+ IMPURITIES

STEP 3

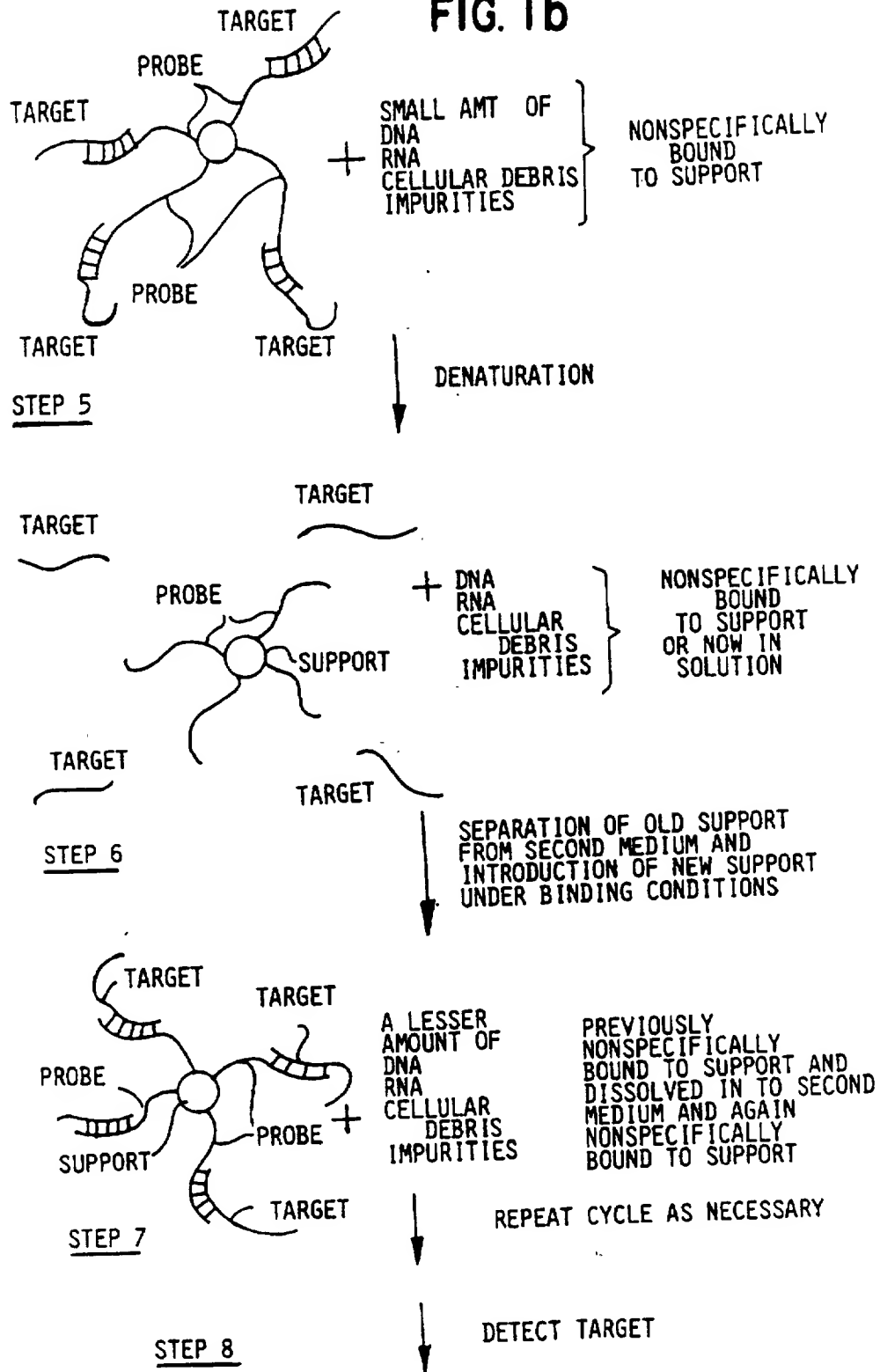
BINDING CONDITIONS



+ LARGE AMOUNT OF
DNA
RNA
CELLULAR DEBRIS
IMPURITIES

STEP 4

FIG. 1b



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03533006, " 030300

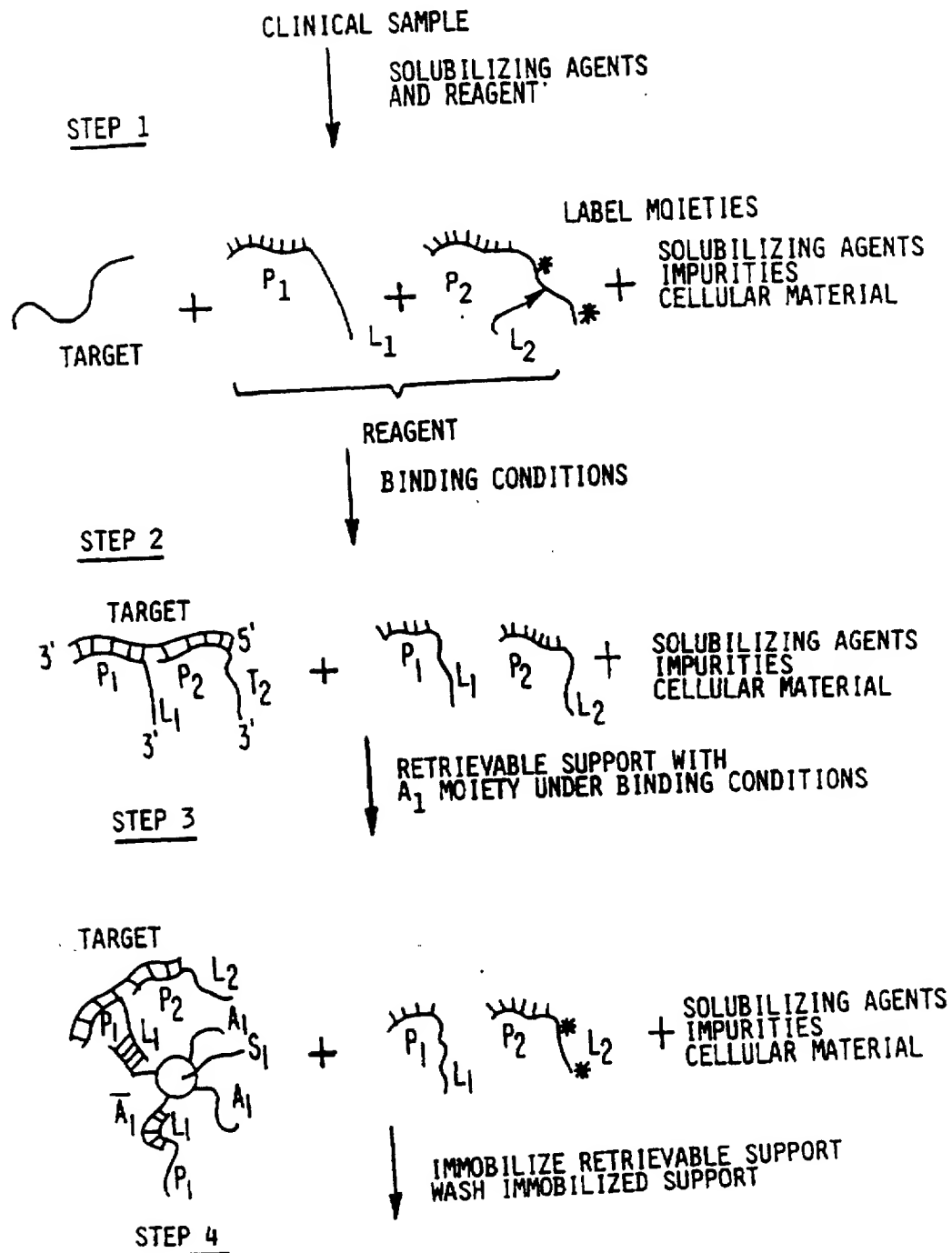


FIG. 2b

TARGET

SEPARATE RETRIEVABLE SUPPORT FROM TARGET-PROBE COMPLEX BY DENATURATION

MONITOR SAMPLE FOR LABEL

STEP 5

TARGET

REMOVE RETRIEVABLE SUPPORT

STEP 6

TARGET

DETECT

STEP 7


TARGET

MONITOR SAMPLE FOR LABEL

REPEAT CYCLE

STEP 8

TARGET



STEP 1

SUPPORT SELECTIVELY BINDING
TO SECOND LIGAND OF P₂
UNDER BINDING CONDITIONS

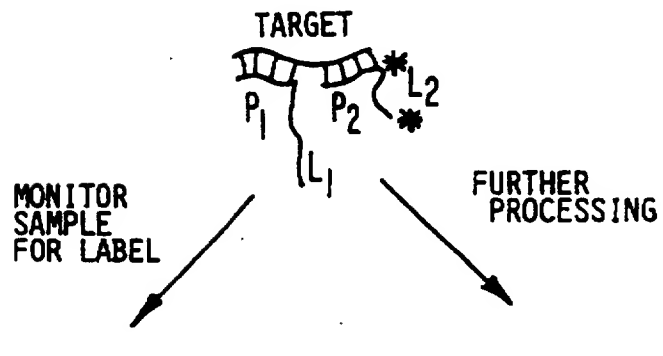
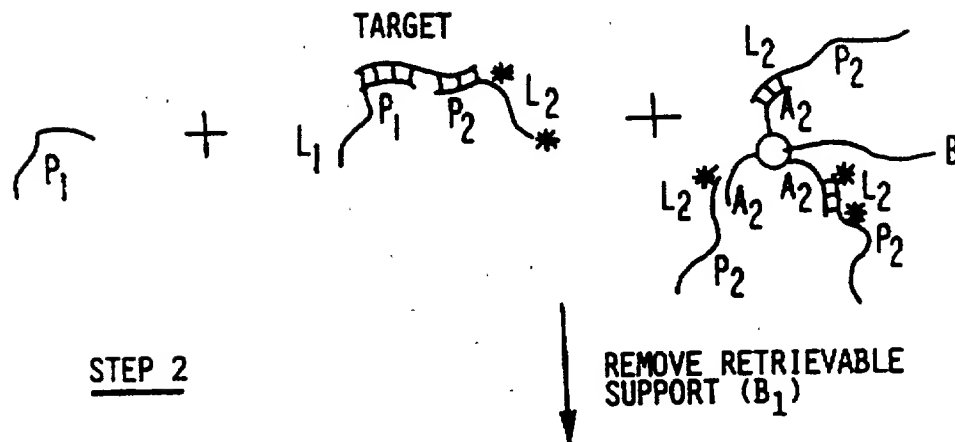
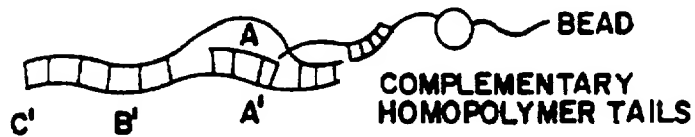


FIG. 4

STEP 1
 TARGET DNA IN ROUGH SAMPLE
 CAPTURE PROBE (REC^A PROTEIN COATED)
 CAPTURE BEAD
 BINDING CONDITIONS



STEP 2
 ISOLATE BEADS

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE
 IMPURITIES, DEBRI, EXTRANEIOUS
 POLYNUCLEOTIDES)

STEP 3
 CORE RNA POLYMERASE
 LOW SALT BUFFER

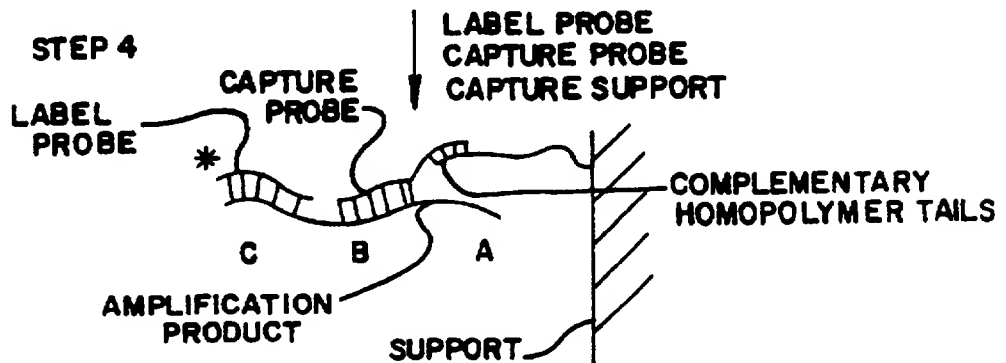
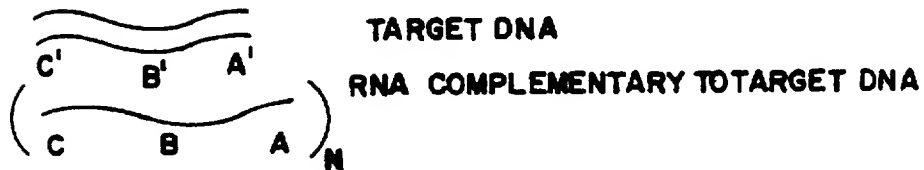


FIG. 6

STEP 1

TARGET DNA IN ROUGH SAMPLE

CAPTURE PROBE
CAPTURE BEAD

STEP 2

ISOLATE BEAD

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE IMPURITIES, DEBRI, AND EXTRANEOUS POLYNUCLEOTIDES)

STEP 3a

DNA POLYMERASE HEXAMER PRIMERS

FIRST COMPLEMENT TARGET

STEP 3b

1. DENATURE
2. DNA POLYMERASE

SECOND COMPLEMENT — C B A

TARGET — C' B' A'

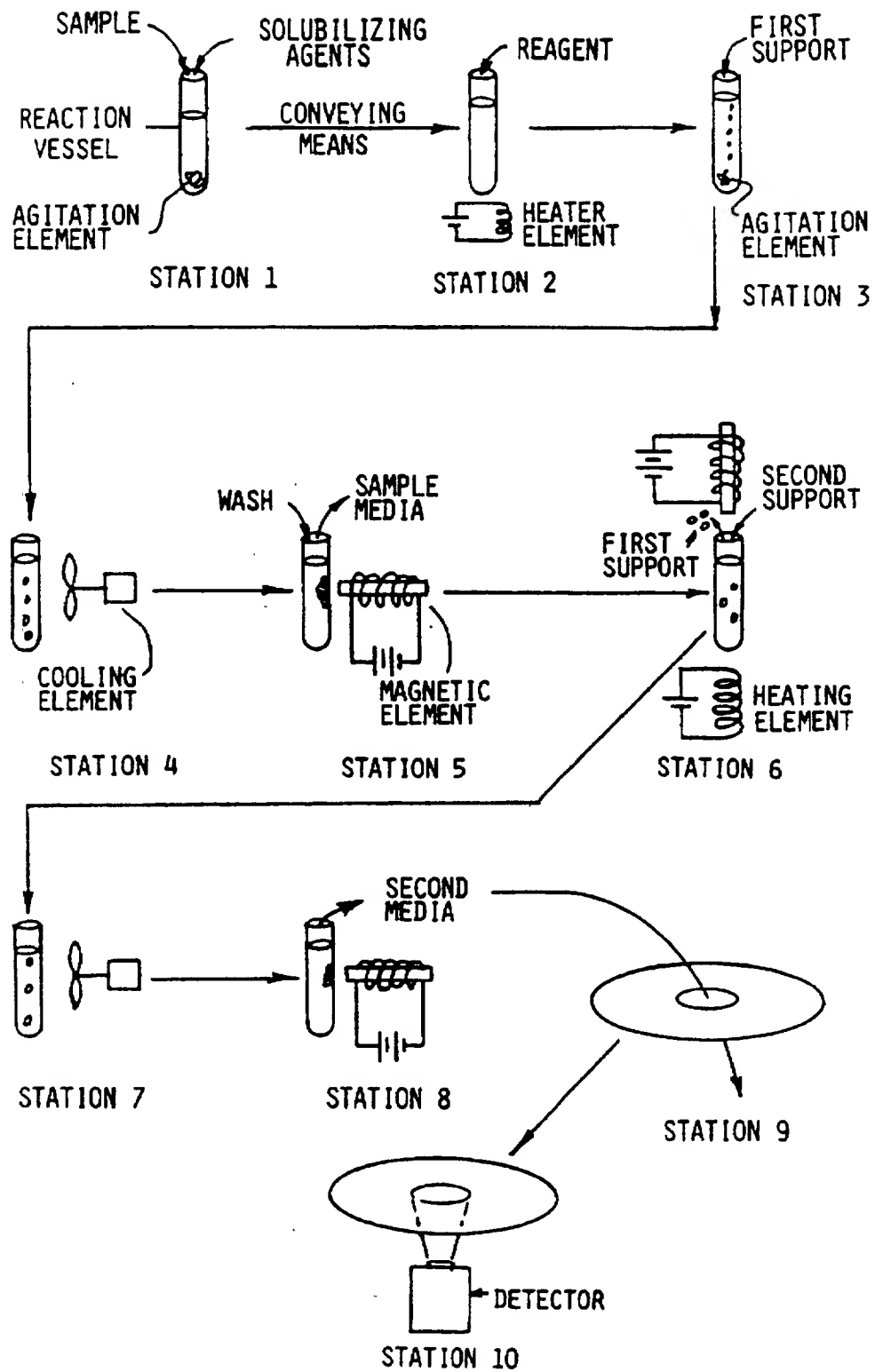
FIRST COMPLEMENT — C B A

COMPLEMENT TO FIRST — C' B' A'

STEP 4

**DENATURE
LABEL PROBE
CAPTURE SUPPORT
CAPTURE PROBE**

TARGET/AMPLIFICATION PRODUCT



5



FIG. 8